

604-3.

Build Warm Houses



Residence of H. I. Glazier, Youngstown, Ohio. Built to First Prize Plan of Weyerhaeuser Lumber Company Competition, 1926. Insulated with Cabot's Quilt. Exterior Walls, Cabot's Stained Shingles. Exterior Trim finished with Cabot's Old Virginia White Collophane.

with

Cabot's Quilt

*The Original Heat Insulator — In Successful Use for Over 30 Years
Resists the Passage of Heat or Cold*

Samuel Cabot

Incorporated

Manufacturing Chemists

141 MILK STREET, BOSTON, MASS.

101 PARK AVENUE, NEW YORK

5000 BLOOMINGDALE AVENUE, CHICAGO

Offices also at

PHILADELPHIA, KANSAS CITY, LOS ANGELES, SAN FRANCISCO, MINNEAPOLIS, PORTLAND, SEATTLE

(1928)

What Cabot's Quilt Does for You

Saves In First Cost of Your Home



Group of Duplex Apartments, Tarrytown, N. Y. Insulated with Double-ply Waterproof Quilt. King-Walsh & Co., Architects and Builders, New York City

The savings from the installation of Cabot's Quilt are so great that they actually *reduce* the first cost of your home. These savings occur in

- (1) installation of heating equipment, and
- (2) in the case of a house that is plastered inside, in the saving of plaster.

Tests at the Massachusetts Institute of Technology show an average reduction in heat leakage of about 27% by the use of Cabot's Quilt. Therefore, the Quilt insulated house requires 27% less radiator surface and, of course, the boiler can be reduced as well. Figured on the basis of Double-Ply Quilt, the reduced cost of heating equipment works out as follows:

	Steam per sq. ft.	Hot Water per sq. ft.
Reduced Cost of Heating Equipment	6.5c	8.3c
Cost of Quilt Installed	3.8c	3.8c
Actual Saving in cost of construction by using Cabot's Quilt	2.7c	4.5c
Saving in Plastering when used under Lathing	1.6c	1.6c

Thus you can actually cut down the cost of your house by using Quilt as the Quilt more than pays for itself from the start.

Saves Fuel Every Winter

A Quilt insulated house will show a fuel saving each year of 23% to 30% of the fuel that would be required if it were not insulated, and with a shingled roof built



This charming house is the home of Mr. H. S. Pratt, Westbury, L.I. with open boards the Quilt will save 62½% of the waste heat. In a house which when uninsulated would burn ten tons of coal a winter, it would mean a saving of at least two and one half tons, which is certainly worth while.

Increases Your Comfort and Safety Improves Health

A Quilt insulated house increases your comfort at every season of the year. In the winter the chilling drafts which are apt to sweep down from a leaky and unheated attic, are very hard to bear. It is impossible to spend a comfortable evening in a chilly living room. But with Cabot's Quilt insulation, you can be sure that the temperature will be even and comfortable at all times.

Cabot's Quilt is a real Fire Retardant. It has saved many buildings from destruction by fire, for the *Zostera Marina* of which it is made, being a sea plant, is composed mainly of non-combustible silica. Insulators made of land plants or their fibers or of the bark of trees like cork are composed principally of carbon, and burn freely.

Cabot's Quilt promotes health. It is a well-known fact that many diseases are spread by insects, rats and other vermin. Vermin will not live in Cabot's Quilt as they will in so many other materials, because there is nothing for them to eat in it and because the natural iodine taken up from the sea water by the *Zostera Marina* in the Quilt actually repels them.

Summer Coolness with Cabot's Quilt



This artistic and cozy little house is insulated with Cabot's Quilt. Its owners will be able to sleep in the upstairs bedrooms under the roof all summer in perfect comfort. This is what Cabot's Quilt does in summer.

We have had letters from great numbers of home owners in places which are hot in summer, who have insulated their homes with Cabot's Quilt. These letters were unsolicited and were written solely because of the enthusiasm which these people came to have for their Quilt Insulation. They say, "We find the upper rooms as cool as those upon the main floor," (Florida); "Attic comfortable in very hot weather," (Iowa); "Last summer was very warm and as I had used your Quilt on roof and sides, we found the upstairs cooler than the downstairs," (Iowa); "Second story rooms are in summer as cool as those upon the first floor," (Vermont).

A Quiet Home with Cabot's Quilt

Cabot's Quilt is as efficient an insulator for sound-deadening as it is for heat and cold. When the walls and interior partitions of your home are insulated with Cabot's Quilt, they will become virtually sound proof. In these days of motor cars, radios, player pianos and phonographs, sound-proofing becomes a matter of the greatest importance. Make sure your home or apartment is insulated with Cabot's Quilt and you will enjoy restfulness, privacy and quiet not otherwise possible.

Samuel Cabot
Incorporated

How Cabot's Quilt Builds Warm Houses

The illustration below shows a little section of a modern house which has been insulated with Cabot's Quilt. The section has been cut in such a way that you can see exactly how the Quilt is put on and how it protects the floors, walls and roof from the heat or cold.

Of course, cold is just the absence of heat and is not a separate thing. When you say the cold is coming in in the winter time, what is really meant is that the cold air is coming in, or that the heat is leaking out, if your house

is so tight that cold air is not actually blowing in.

Cabot's Quilt is a true insulator and resists the passage of heat in or out. It is a better insulator than many materials popularly supposed to be among the best as shown by tests of the United States Bureau of Standards.

Quilt is flexible and light and is very easily handled and cut. Cabot's Quilt is much easier, simpler and cheaper to put on than any of the so-called insulating wall-boards.

Cabot's Quilt fastened with battens between rafters on underside of roof for protection against the hot sun in summer and to make upper stories warmer in winter. Cabot's Quilt seals up all air leaks and completely stops drafts.

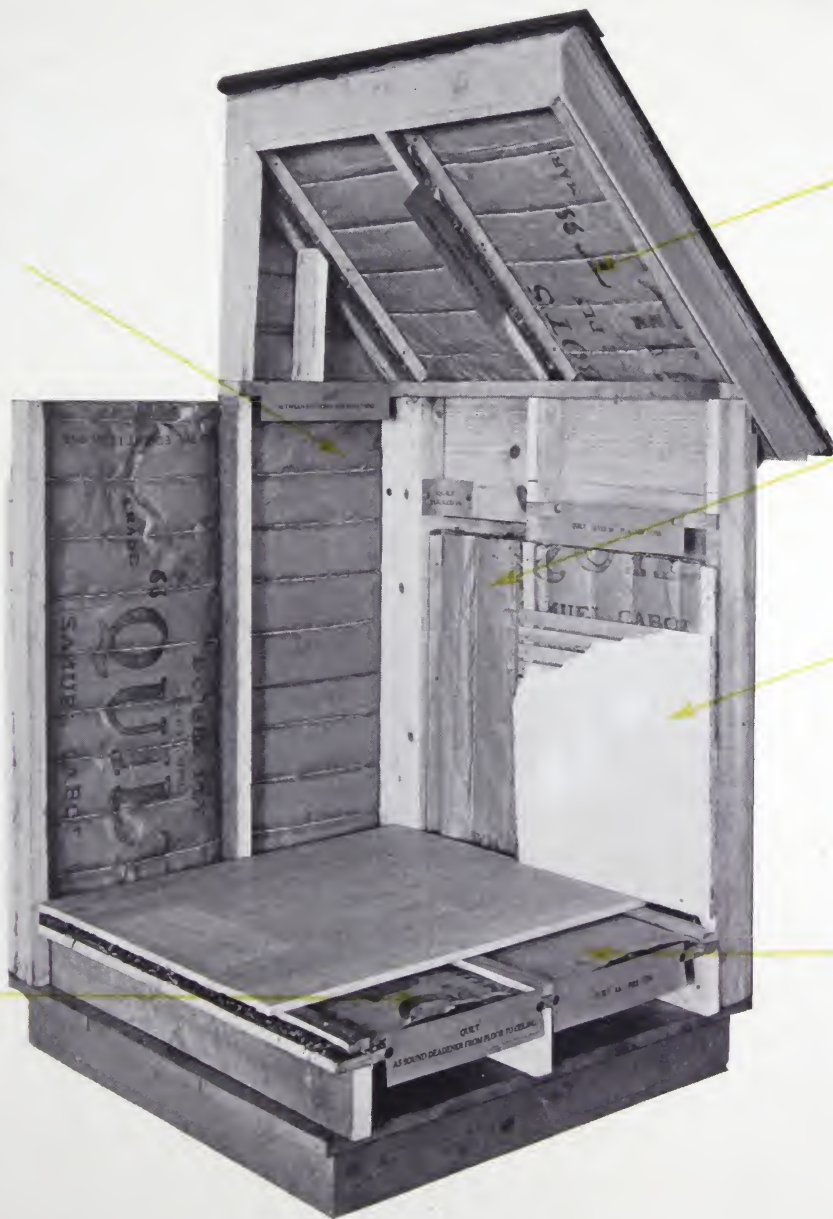
Cabot's Quilt installed on inner side of the wall studding beneath the lath. This gives a wider air space than some other methods of application and is more sound-proof.

Plaster applied on lath of Cabot's Quilt. The Quilt prevents the plaster from slopping through too far between the lath, thus saving 56c in plastering cost (by actual test), for every \$1.00 spent for Quilt.

Cabot's Quilt installed under floor to make sun-room, glassed-in porch or other room without cellar beneath it, as warm as though it had heated space below.

Cabot's Quilt built into wall of house between studs and boarding, making walls heat-, cold- and sound-proof.

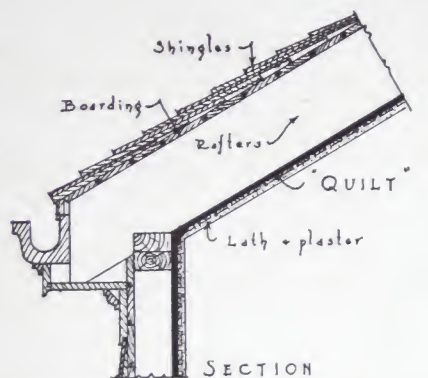
Cabot's Quilt installed between floors as sound-deadener.



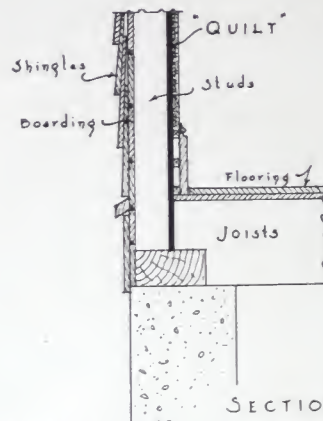
Thickness for thickness, Cabot's Quilt is shown to be the best insulator in a SPECIAL BULLETIN on the figuring of steam and hot water radiation, compiled and published by the Illinois Master Plumbers' Association in 1928. A limited number of copies of this bulletin are available at our office and will gladly be forwarded on your request. Make your application early so as to be sure to secure one.

How to Apply Cabot's Quilt

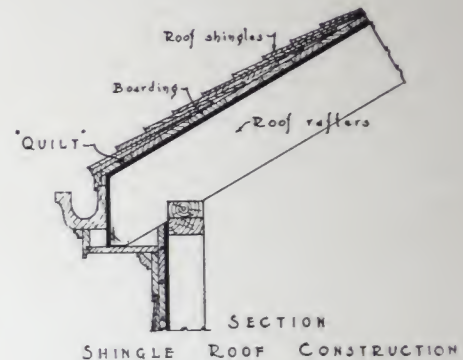
The drawings on these two pages show approved methods of applying Cabot's Quilt to different kinds of construction. Owing to its flexibility and ease of application, it can be put between any of the various building materials that ordinarily make up the walls, roof or floors of a house, but it is preferable to install Quilt when possible on the inner side, instead of just under the outside sheathing.



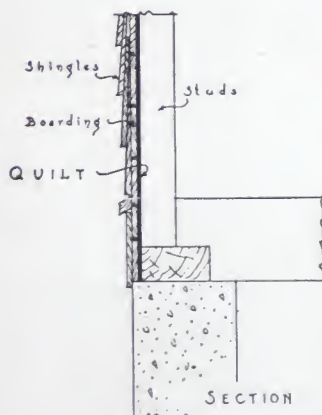
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SHINGLE ROOF CONSTRUCTION



SECTION
SHINGLE WALL CONSTRUCTION



SECTION
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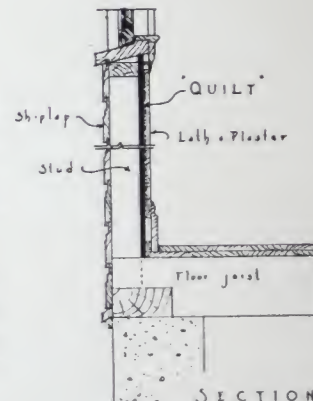
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Cabot's Quilt Averages Highest

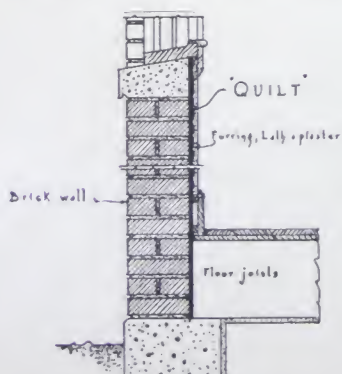
Assuming that all other insulating materials are just as good as Cabot's Quilt, the following table shows why Cabot's Quilt is the best insulator made.

	Quilt	Cork	Hair	Pulpboards	Flax
Flexibility	100%	100%	100%	100%	100%
Permanence	100%	75%	50%	40%	60%
Fire Resistance	90%	10%	10%	—	—
Decay Proof	100%	75%	—	20%	—
Vermin Repellence	100%	100%	—	—	—
Average	98%	60%	43%	27%	28%

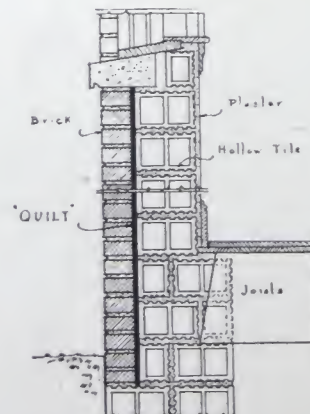
These figures in all cases give the benefit of the doubt to the materials listed, yet Cabot's Quilt averages 98%, the nearest competing material being only 60%.



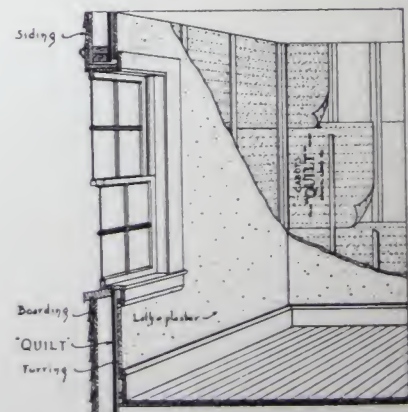
SECTION
SHIPLAP CONSTRUCTION



SECTION
BRICK WALL



SECTION
BRICK & TILE WALL



"QUILT" LAID ACROSS STUDS AND
FINISHED WITH PLASTER OR WALL-BOARD

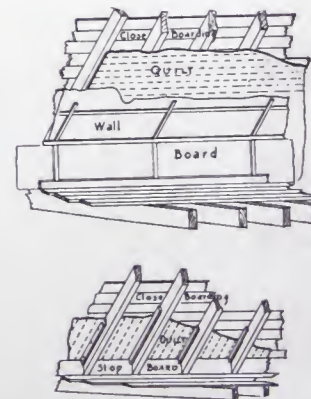
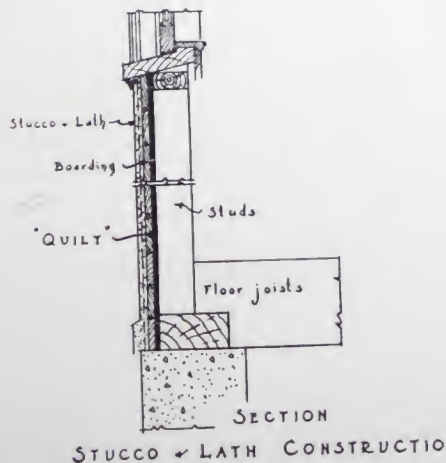
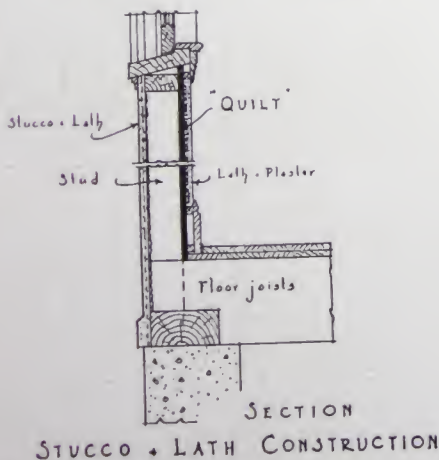
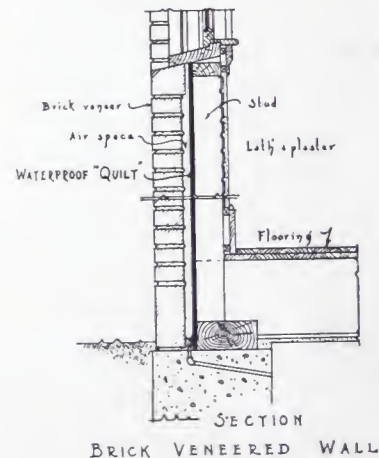
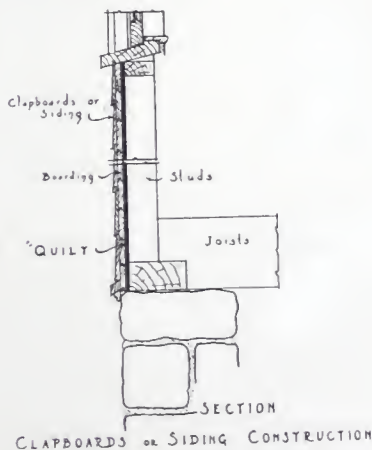
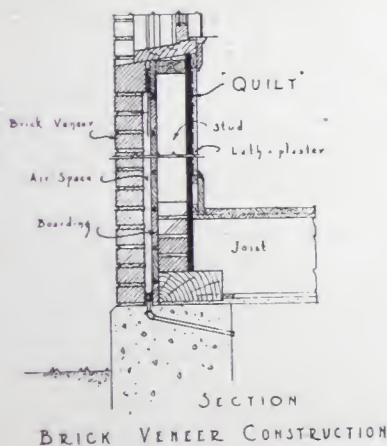
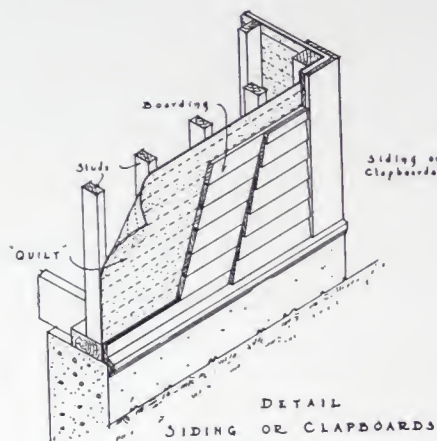
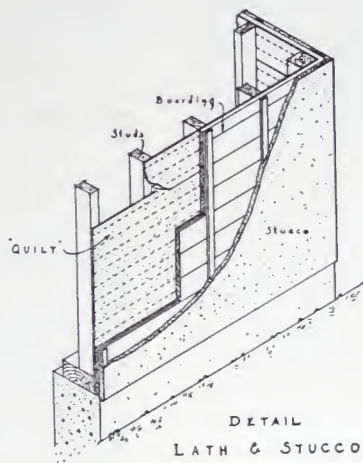
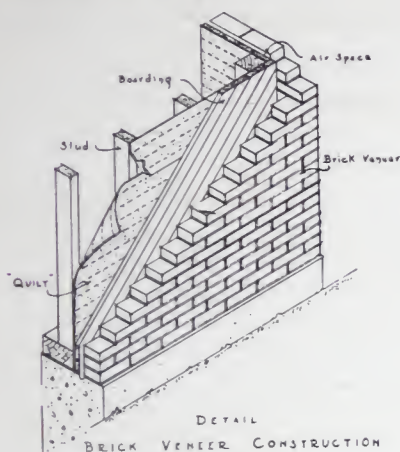
● To All Types of Construction

Putting Quilt into Houses Already Built

It is very easy to apply Quilt in various parts of houses already built, without any actual new construction.

It can be put between the rafters in an unshingled attic to make the attic cool in summer and warm in winter. In this case it is cut a little wider than the spaces between the rafters and pushed in, fastening the edges down with light battens.

Cabot's Quilt may be put on the undersides of piazzas, sleeping porches, and floors which have no cellar under them, and will make the spaces above them far warmer and more comfortable. In the case of walls it is possible to apply Cabot's Quilt to an existing wall when the room is very cold, and then apply a plaster board directly over the Quilt or of course lath and plaster can be used.



Cabot's Quilt --- Laboratory and Other Tests

Quilt Tests at U. S. Bureau of Standards, Washington, D. C.

Cabot's Quilt, in recent exhaustive tests at the U. S. Bureau of Standards and at the Mass. Institute of Technology, proved to be from 25% to 75% more efficient than any insulating wall-board of equal thickness and cost.

The U. S. Bureau of Standards tests of house insulating materials, in which Cabot's Quilt made such a fine showing, are given in Circular Letter 227 of the Bureau, which you may obtain from us, by writing us.

Quilt Tests at Massachusetts Institute of Technology

In 1926-1927, a series of tests were made in the Massachusetts Institute of Technology under the direction of Professor Gordon Wilkes. These were made at our instance because we wished to have figures of undoubted exactness. Extracts from Professor Wilkes' tests at Massachusetts Institute of Technology are given below.

These scientific tests, measured by the standard method of British Thermal Units transmitted per square foot of surface per hour per degree of difference in temperature, show the following results:

One layer of Cabot's Double-ply Quilt (less than one-half inch thickness) is warmer than a twelve-inch brick wall, or more than sixteen times as warm as brickwork.

One layer of Cabot's Double-ply Quilt reduces the heat leakage of a slate roof from .38 to .20, or nearly one-half.

One layer of Cabot's Double-ply Quilt reduces the heat leakage of clapboarded walls from .28 to .16, or nearly one-half.

Heat Conductivities:

Standard 1" board55
4" Brick Wall60
8" Brick Wall40
12" Brick Wall30
Single-ply Quilt41
Double-ply Quilt26

We will gladly forward copies of these tests in full to anyone asking for them. There is no charge and no obligation.

In Actual Use Tests of Cabot's Quilt Tell a Convincing Story

When the Quilt is actually put into use the story it tells is just as convincing. Here are two houses in the same neighborhood in Portland, Oregon. One was lined with ordinary building paper, the other which was really somewhat harder to heat because of being all one story high and having more wall and roof space, was insulated with Cabot's Quilt and was heated at an average cost per month, October to May, of \$6.15 less than the first house.



Residence of J. H. Hartog

THIS HOUSE was lined with building paper.

THIS HOUSE COST to HEAT, from October to May
inclusive \$138.10
Average cost per month 17.26



*Residence of Dr. W. B. Holden
F. Manson White, Architect*

THIS HOUSE WAS INSULATED with Cabot's Quilt.
THIS HOUSE COST to HEAT, from October to May
inclusive \$88.72
Average cost per month 11.09

These figures are the official figures of the Portland Gas & Coke Company, Portland, Oregon. The heating equipment was *exactly* the same in both houses.

What Cabot's Quilt has Done in Actual Use

"Upper Rooms as Cool as Lower" in Florida

"I send you by this mail photograph of my house built last fall at Daytona, east coast of Florida, the sides, ends, and roof of which are covered with your Sheathing Quilt. During the warm weather now prevailing in Florida, notwithstanding the considerable roof surface exposed to the full sunshine, we find the upper rooms as cool as those upon the main floor. As a material providing insulation against heat or cold it has proved very satisfactory, and we are all well pleased with it."

GEORGE N. CHAMBERLIN.



Winter Residence of George N. Chamberlin, Daytona, Fla.
Lined with Quilt and Stained with Cabot's Shingle Stains

"Very Warm" in Winter; "Coolest" in Summer



Overton Residences, Keokuk (see letter below)

"Your books will show that in April, 1912, I purchased quite a quantity of your Quilt. . . . used on the buildings a picture of which is enclosed—not only, however, on the roof of the bungalow, but all over and between the floors of the largest building. This latter building is very warm, and can observe a considerable decrease in the use of fuel and last summer, as hot as it was, the house was the coolest in the neighborhood."

F. C. OVERTON.

Keokuk, Iowa, December 31, 1913.

Cabot's Quilt in the Frozen Antarctic and in the Icy Arctic

Cabot's Quilt has proved its power to build warm houses at the very ends of the earth. It was used by Captain Scott in his famous Antarctic expedition. Captain Scott wrote in his Journal ("Scott's Last Expedition, Volume I")—"The hut is progressing apace, and all agree that it should be the most perfectly comfortable habitation."



This is one one of the shelter huts of the Scott Antarctic Expedition. It was lined with Cabot's Quilt especially made for the purpose and is referred to as above in Captain Scott's Journal

Commander Evans wrote us upon the return of the survivors of the Scott Expedition:

"I have much pleasure in informing you that the patent Quilting supplied by your firm for insulating the Antarctic huts at Cape Evans, McMurdo Sound, and Cape Adare, Victoria Land, Antarctic, proved highly satisfactory. It was thoroughly efficient, and I am convinced that it is the best material for the purpose."

EDWARD G. R. EVANS, Commander, R.N.

Though *every* extra ounce of weight was a *life or death* matter, Quilt was taken on the expedition, showing it was absolutely necessary.

And in the Arctic, Cabot's Quilt was used at Etah in North Greenland by Donald B. McMillan.

A letter, dated August 8, 1914, written by Mr. McMillan to a friend in Boston, contained the following:

"That Cabot Sheathing is wonderful stuff. Jot (Small) swore that we would freeze to death in our house with only one stove going. We are thirty-four feet square, eight rooms on the ground floor, and ten windows; and we have never been cold, but many times too warm and obliged to throw open the doors. I placed this sheathing all over the outside of the building."

DONALD B. McMILLAN.



McMillan's Hut at Etah, North Greenland

Cabot's Quilt --- What it is and Where to Buy It

Cabot's Quilt is a thick springy matting of cured *Zostera Marina*, a marine plant, gathered on the Bay of Fundy and stitched between sheets of the toughest Kraft paper. *Zostera Marina* grows in the ocean and is largely composed of silica (instead of carbon which makes up vegetable growths in the air). This makes the Quilt Fire Resistant. The natural iodine content keeps it free from vermin and rot.



The *Zostera Marina* has a long, crinkly fibre. When it is matted into the Quilt it forms thousands of tiny air cells in every layer. Dead air in cells is one of the most perfect insulators known.

Cabot's Quilt combines high insulating power, low cost, ease of installation, fire-resistant qualities, sanitary nature and permanence, enabling the most inexpensive building to have as perfect insulation as the most costly.

The Old Pierce House in Dorchester, Massachusetts, is one of the oldest houses in New England and will soon be 300 years old.



In 1893, 358 years after it was built, walls were opened and found to be insulated with *Zostera Marina* which had been stuffed between the studding. This material, exactly the same as used in Cabot's Quilt, was found to be perfectly preserved. What better proof could be secured of the lasting and vermin-proof qualities of Cabot's Quilt?

Types of Quilt

Quilt is made in the following types:—

(1) SINGLE-PLY

This is the kind commonly used for lining houses in place of the building paper ordinarily employed between the inner and outer sheathing. It is about 1/3" thick, and one layer is equal to 28 layers of common paper.

(2) DOUBLE-PLY

This is used for sound-deadening for all houses and similar work where a thorough job of insulation is required. One layer of Double-ply Quilt is equal to more than forty of common paper. By scientific tests it has also been shown that one layer of Double-ply Quilt is a somewhat better insulator than a 12-inch brick wall, and is equal to the same thickness of cork in insulating value.

NOTE: Cork is sold for house insulation only in 1 1/2" thickness,—three times the thickness of Cabot's Double-ply Quilt.

(3) TRIPLE-PLY

This is especially designed for cold-storage work, refrigerators, refrigerator cars, and is especially desirable for all refrigeration insulation. It is about 2/3" thick.

Single-ply, Double-ply, and Triple-ply Standard Quilt are all made with heavy Kraft paper.

Special Quilt

We make a number of Special Types of Cabot's Quilt to order, using other materials than the regular Kraft Paper, and including different weights and types of waterproof paper, and asbestos paper.

Shipment, Orders, Etc.

Quilt is shipped in rolls, each roll containing a continuous sheet 84 feet (28 yards) long, and 3 feet wide,—a total of 250 square feet. *Each roll contains 12 caps for nailing.*

We always make prompt shipment and ship the cheapest route unless otherwise instructed.

Orders from parties with whom we have had no previous dealings must be accompanied by remittance or satisfactory references.

Always specify the grade of Quilt desired.

Trade Mark

The words "Cabot's" and "Quilt" are registered. Infringers will be prosecuted.

Cabot's Quilt Universally Available

Cabot's Quilt can be secured through Dealers in Building Supplies and Lumber, anywhere in the United States, throughout the entire British Empire, including Canada, Australia, New Zealand; in Sweden, Finland, Holland and Argentine Republic, or in other countries where not in stock, from our nearest warehouse.

CABOT'S BUILDING SPECIALTIES

Cabot's Quilt, Creosote Stained Shingles, Creosote Shingle Stains, Interior Wood Stains, Semi-Flat Waterproof Collophanes, Gloss Collophanes, DOUBLE WHITE, Old Virginia White, Clear Brick and Cement Waterproofings, Conservo Wood Preservative, Damp-proofing, Flexiblac Protective Paint, Lamp-black and Mortar Colors.

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PHILADELPHIA
KANSAS CITY

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